JB7 User Guide

Back Key

1. Starts the previous track when playing
2. Go back to the previous step in menu
3. Deletes letters when entering text

Next Key

1. **Turn on and play tracks at random from standby**
2. Starts the next track when playing
3. Goto the next step in menu – used when setting the time, finding a track, picking a CD name etc.

Start/Stop Key

1. Start playing or unpause
2. Stop playing/pause - enters standby after 5 minutes.
3. Start playing currently displayed track, album or playlist.
4. **Press and hold** to Stop everything - Music playback, CD loading, USB transfer, Recording - a kind of panic button

Eject Key

1. Eject CD
2. Delete track from playlist

Vacuum Fluorescent Display

180x32 pixel graphic display used to display time, status, menu and help text.

The JB7 user interface was designed to be used across a room by remote control or directly at the front panel.

Critical information is displayed with large letters. Supplementary information and help text is smaller.

Soft scrolling allows more information to be shown on a compact display.

Volume and Menu Control

1. Push to start the on screen menu
2. Rotate to scroll through menu choices
3. Push to select the item displayed
4. Rotate to pick a letter during text searches.
5. Volume control

Infra Red Window

Used by remote control

CD Slot

1. Insert CD gently until it is pulled inside
2. Use Eject key to eject.

USB Port

Compatible with USB mass storage class devices - including most MP3 players, MP3 mobile phones, USB memory and USB hard disk drives. USB 2.0 Full Speed 12Mbits/sec

1

JB7 Remote Control

Play/Stop - same as play/stop on front panel - starts or pauses the music - plays selected track, album or playlist. Presss and hold this key to stop all operations. CD loading, USB transfer & recording.

Find - starts track search - finds tracks containing a string of letters

Rip - transfers the current track to the USB device

Rec - starts recording from the aux. input to a track on the hard disk

Vol+/Vol- - adjusts the volume

Next - same as next on front panel. Start playing the next track or advance to next step in menu. Also used as cursor right when editing text.

Prev - similar to back key on front panel. Starts playing the previous track or returns to previous step in menu. Also used as cursor left when text editing.

History - lets you scroll through previously played tracks.

0-9 - Used to enter text when searching or naming tracks and albums. Uses the same convention as mobile phone handsets. 0 key turns off playlist.

Red - Violet - These keys correspond to each of seven playlists. One press displays the playlist. A second press starts playing the playlist. Press and hold a key and the

current track is added to the playlist.

Up/Down - scrolls through menu options and choices

OK - selects the displayed menu item or choice - the same as pushing the main control on the front panel.

Menu - starts the top level menu.

Info - displays disk statistics or context dependent information.

Intro - turns intro mode on and off. First press shows the current state. Subsequent presses changes the mode. Intro mode plays just the start of each track.

Random - turns random mode on and off. First press shows the current state. Subsequent presses changes the mode. Random mode plays tracks in a random order. Random mode is turned off when an album is played.

HDD/USB - selects music from the hard disk and the attached USB device. Track search will scan both. Random mode will embrace both sources.

CD - selects music from the CD.

USB - selects music from the attached USB device. Track search and random restricted to music on the USB

Aux - selects the aux. input. The aux. input must be selected before the record function will start.

Quick

How to Load a CD onto the Hard Disk

1. Insert the CD
2. Push the knob to select "Load CD to HD"
3. Turn the knob to find the album name then push.

See Load CD to HDD in the CD menu for a fuller description

How to find and play a track by name

1. Push the knob to start the menu system.
2. Turn the knob to select "Track Search" then push.
3. Turn the knob to pick a letter then push - repeat.
4. Press Next to see the matches.
5. Turn the knob to select a matching track

6. Press Play or press Back to return to step 3.

Videos

The easy way to see how to use JB7 at www.3ga.us.

Connecting & turning on - follow this sequence.

1. Connect the loudspeakers - press the tab and insert the end of the wire. Connect the black or plain wire to the black terminal and the red or striped wire to the red terminal.

2. Mains off or unplugged Insert the jack plug from the mains adaptor into the socket marked DC + 24V.

3. Plug the mains adaptor into the mains and turn on. Turn off at the mains first when disconnecting.

Overview

You can download the latest version of this guide from the 3ga website at www.3ga.org.uk.

Music Organisation

Music on the hard disk is arranged as tracks in albums.

Most of the time the album and track names correspond to a CD you loaded and the album and track names come from the album database. You can rename album and track names.

If there is no entry in the database for a CD when it is loaded then JB7 will provide a name like "Album 123" that you can use or edit to make it more memorable.

Music recorded from the Aux input is put into a special album called "Recordings". You can rename this album and subsequent recordings will be put into a freshly created "Recordings" album.

Each time you upload music from the USB port it is put into a new "album" that you can name.

Compression

JB7 normally compresses music to MP3 so you can store more music on the hard disk.

Compression is slower than loading from the CD so music is loaded quickly in a raw form then compressed to MP3 when JB7 is in standby.

During compression JB7 displays the percentage progress and the number of remaining uncompressed tracks.

You can choose the level of compression or disable compression. Any CDs loaded when compression is disabled will not be compressed. Some people may use this to keep an exact copy of a CD.

Playlists

JB7 lets you compile lists of tracks called playlists. You might compile a playlist for a special occasion or to create a mood.

You can send all the tracks in a playlist to an MP3 player.

To make life simple there are seven playlists named after the colours of the rainbow - red, orange, yellow, green, blue, indigo, violet.

The playlists are linked to seven number keys on the remote control.

Press Once - to see how many tracks are in that playlist.

Press Twice - to start playing the playlist

Press and hold - to add the current track to the playlist.

USB

JB7 is compatible with USB mass storage class devices including MP3 players, iPods, USB memory, USB hard disks and many MP3 mobile phones. (Note that iPods will only play music loaded into them by iTunes).

JB7 lets you treat an attached USB device as a separate source of music or as an extension to the internal hard disk.

If USB is selected on the remote then track search will only search the USB for tracks and JB7 will only play tracks on the USB device.

If HDD+USB is selected on the remote then track search will search the internal disk and the USB device and play tracks from both.

There is no notion of albums on the USB device because tracks on a USB device have no fixed organisation. So there is no USB album search.

The Rip button on the remote transfers the current track to the USB device. The USB, PLAYLIST, ALBUM and CD menus support other functions like ripping a whole CD to the USB device.

Only MP3 files may be transferred to the USB device. If a track has already been compressed this is quite rapid but will be slower if ripping direct from CD or from an uncompressed raw track on hard disk.

You cannot add a track on a USB device to a playlist - you must upload it onto the hard disk first.

Album database

The album database is derived from freedb - a public domain album database. The database is updated every three months and is can be obtained through the 3GA website. The database has been compiled by members of the public over the years so may contain misspellings and other oddities.

CDs do not, in general, contain information about album and track names and a CD has to be identified by the pattern of track lengths - measured to the nearest 75th of a second. This pattern is a kind of fingerprint used to find the details in the album database.

Often several CDs share the same fingerprint so you have to pick the right details when loading a CD. On occasions a music publisher releases different recordings of a CD so the fingerprint on your CD does not match the details in the database. If that happens you can enter the album name by hand and you may choose to name favourite tracks by hand.

Standby

JB7 enters standby mode after several minutes of inactivity. The hard disk is stopped but the only outward sign is that the source information is removed from the display.

Source information

11:31 am CD 12
USB 130
HDD 1023
AUX

If there are music tracks to be compressed - it happens during standby.

You don't have to do anything special to turn it back on - just press a button - the hard disk starts automatically.

Heat dissipation

JB7 uses very efficient switching power amplifiers and laptop disk drives. Nevertheless the display, DSP, motors and power amplifiers all generate heat and JB7 uses the metal case - instead of a bulky heatsink or fan - to dissipate this heat.

It is normal for JB7 to feel warm and it will be warmer when playing very loud music or loading many CDs one after the other.

JB7 can overheat if covered or enclosed.

JB7 - not really a CD player

JB7 uses a CD mechanism designed for laptop computers. The mechanism was chosen for its size and performance at its principal job – getting music onto the hard disk.

JB7 will play CDs directly but the mechanism spins the CDs at high speed so it is slow to get up to speed and is fairly loud. Just remember its real job is loading not playing.

Menu System

JB7 has a menu system for less immediate operations - like renaming tracks or setting the clock.

The menu system also lets you operate the system entirely from the front panel - without the remote control.

To start the menu from the front panel push the main control knob then turn it to see the choices - push again to select a choice.

To start the menu from the remote press either the menu button then press up or down to see the choices - press the OK button to select a choice.

The next button takes you from one step to the next. In track search it takes you from text entry to the matching tracks.

If you change your mind and want to go back press the back button - on the front panel or the remote.

Press and hold the back button if you want to exit the menu system completely.

You can often access functions in several ways. It helps to know that you can jump to the album menu from the track menu or pick a track from the album menu.

Menu

The overall menu structure is shown here. A description of each function follows.

Contents

Main - Track Search

The Track search function is found in the main menu and is also started by the Find key on the remote.

Track Search searches the hard disk and/or the USB device for track names containing a string of letters.
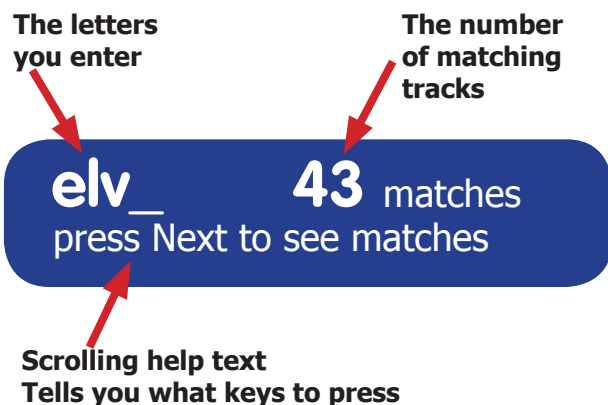
Track search is a two step process and you can go back and forth.

Step 1 - enter some letters

Enter letters from the front panel by rotating the main control knob to see the letters then push to select.

Enter letters on the remote using the numeric keys in the same way as texting on a mobile phone. (Press the "2" key once for "a", twice for "b" and so on).

JB7 searches after every letter is entered and displays the number of matching tracks found.

The letters you enter

The number of matching tracks

elv_   43 matches
press Next to see matches

Scrolling help text
Tells you what keys to press

The search is case insensitive and the letters can appear anywhere in the track name so "elv" will match with "Elvis" and with "velvet".

Delete the last letter you entered with the Back button on the front panel or the Del button on the remote.

When the number of matches is low enough press the Next button to look at them - remember you can come back and add-to or change the letters.

Step 2 - look at the matches

On the front panel turn the main control knob to see matching track names.

On the remote press the up and down keys to see the matching track names.

If you simply want to play the track shown press the Play/ Stop button on the front panel or the remote.

If you want to do something else with the track - like transfer it to the USB - then push the main control knob or OK on the remote. This goes to the track menu.

The back key takes you back to step 1.

The number of the match

The full name of the matching track

3 Elvis Costello &
turn knob and push

Scrolling help text
just press Play to hear the track

Main - Album Search

The Album search function is found in the main menu.

Album search is almost identical to track search except that.

* JB7 does not search the USB device - because USB tracks are not necessarily organised in albums.

* When you play a matching album JB7 starts playing the first track on the selected album - and will turn off random mode so you hear the tracks in order.

* JB7 starts the album menu - as opposed to the track menu - when you select a matching album.

Main - History

The History function is found in the main menu and is also started by the History key on the remote.

This function allows you to scroll through tracks you have previously played and replay them.

Track index in history

The track name

-2 My Way
turn knob and push to play

The track index is shown as a negative number - so minus one means the last track and minus two means the track before that.

You scroll through the list of previous tracks by turning the main control knob or using the up down keys on the remote.

The History will record tracks from the internal disk or the USB device but not tracks played from a CD. Tracks are only recorded once in the history so if you replay a track don't expect to see it appear many times.

Main - Browse Albums

Browse albums - in the main menu - lets you scroll through the albums stored on the internal disk.

Albums are stored in the order you loaded them.

Album number   **Album name**

193 Vivaldi - The F
turn knob and push to select

If you want to play the album press Play.

Press OK or push the main control knob to start the Album menu for more album related functions.

Main - Playlists

This entry in the main menu starts the Playlist menu.

The most common Playlist functions - Add Track and Play - can be done directly on the remote.

The Playlist menu also lets you edit, clear and send playlists to the USB.

Main - Current Track

This option selects the currently playing track and starts the Track menu. This option only works for tracks on the internal hard disk.

The Track menu lets you play, delete, rename, add to playlist and copy to usb.

An important option in the track menu is the album menu option. This allows you to select the album containing the current track - the current album.

Main - CD Functions

This option starts the CD Menu - which lets you play, load to hard disk, rip to USB, update the album database and play specific CD tracks.

Main - USB functions

This option starts the USB Menu - which lets you play, load to hard disk, transfer to USB, backup, restore and related functions.

Main - Settings

This option starts the Settings Menu.

In the settings menu you will find occasionally needed functions like setting the time and alarm, setting the compression level and upgrading the firmware.

Main - Recording menu

This option selects the Aux. input and starts the Recording Menu. This is used to start and stop recordings and to set the level and maximum duration of recordings.

You can start recordings directly from the remote control - press the Aux key then press the Rec key.

Main - Disk Stats

This option displays a summary of the hard disk usage including number of tracks and albums, number of mp3 encoded tracks, disk space used and available space.

336 albums
5037 songs 5037 MP3
30.02 Gb used 27.20 Gb free

Track menu - Delete Track

This option deletes the selected track. You will be asked to confirm the deletion.

Track menu - **Play Track**

This option plays the selected track - you can also press Play anytime in the Track menu.

Track menu - **Add to Playlist**

This option adds the selected track to a playlist.

Playlist number   **Playlist name**

2 Orange
Pick a playlist

Its quicker to add the currently playing track to a playlist by pressing and holding the corresponding number key on the remote.

The menu option allows you to do it from the front panel - without the remote.

Tracks are added to the end of the playlist.

Track menu - **Rename Track**

This option lets you change a track name. This is most useful if an unknown CD is loaded - no entry in the album database. In that case the tracks are called track1, track2 and so on.

After renaming you will be able to find the track more easily.

New Text

track3_
Press Next to finish

Editing text on the remote is slightly different and offers a bit more flexibility than the front panel.

Front Panel - You add letters or delete at the cursor - positioned at the end of the text.

Add letters by turning the main control knob to see the letters then push.

Press Back on the front panel to delete letters and press

Next on the front panel when complete.

You cannot add capitals from the front panel.

Remote - You can add or delete letters and move the cursor - so you can change a single letter in the middle of a track name for instance.

Enter letters on the remote using the numeric keys in the same way as texting on a mobile phone. (Press the "2" key once for "a", twice for "b" and so on).

Capital letters appear after the lower case letters on the same key - so keep pressing.

Delete with the Del key on the remote.

Move the cursor left and right with the Prev and Next keys on the remote - these have a two way arrow underneath as a reminder.

Press OK on the remote when done.

The name of the track will generally be longer than the display can accommodate so only part of the name near the cursor may be shown.

Track menu - **Album Menu**

This option selects the album for the selected track and starts the Album menu.

The Album menu lets you play, delete & rename albums or copy the whole album to usb.

Track menu - **Track to USB**

This option transfers the selected track to the USB device.

You can also transfer the current track to the USB by pressing the Rip key on the remote.

Sometimes you may want to specify a target directory on the USB device. For instance some mobile telephones will only play MP3s if they are in the correct directory - like "music" or "mp3".

The target directory can be specified using the USB directory option in the USB menu.

Album menu - **Delete Album**

This option deletes the selected album. You will be asked to confirm the deletion.

Album menu - Play Album

This option plays the selected album - you can also just press Play at any point in the Album menu.

Album menu - Pick Track

This option allows you to pick a track from the selected album.

The track number **The track name**

3 Bach - Branden
Pick a track

Scroll through the tracks then

Either press Play to play the track
Or select one by pushing the main control knob or pressing OK - this starts the Track menu for that track.

Album menu - Rename Album

This option lets you change an album name.

This is often useful if you loaded an unknown CD - and you accepted the default name - something like "album 123".

It is also useful to rename the "Recordings" album. This is a special album used for recording from the Aux. input.

Once you have completed a number of related recordings - say tracks from a vinyl album - rename the "recordings" album to reflect the content.

See the description of rename track for details of this function.

Album menu - Relabel Album

This option is a special function used when the album database is updated.

There may be recently published CDs that you loaded that were not in the old album database **but** are in the new album database.

candidate album name

2 Bob Marley - T
Choose CD name

This option allows you to relabel the album and the tracks from the new database.

You need to select the correct album name from a short list of possibles taken from the new album database.

Album menu - Album to USB

This option transfers the selected album to the USB device.

See the description of the Track to USB function about the target directory.

Playlist menu - Add to Playlist

This option adds the current track to a playlist. The behaviour is the same as the Add to Playlist option in the Track menu.

Playlist menu - Play Playlist

This option selects and plays a playlist.

Playlist number **Playlist name**

6 Indigo
Pick a playlist

Its quicker to play a playlist by pressing the corresponding number key on the remote twice

The menu option allows you to do it from the front panel - without the remote.

A playlist will loop back to the start after playing the last track and remains active until you press the zero key on the remote or press and hold Play/Stop on the front panel.

Playlist menu - Playlist to USB

This option transfers all the tracks on the selected playlist to the USB device.

See the description of the Track to USB function about the target directory.

Playlist menu - Clear Playlist

This option removes all the tracks from the selected playlist. You will be asked to confirm the operation.

Playlist menu - Edit Playlist

This option allows you to cut and paste tracks in the selected playlist.

The Edit Playlist function relies on an invisible copy of a track - called the "cut track". The cut track is like the clipboard on a PC and it holds a copy of the last track deleted. The cut track can be pasted many times in different playlists - it remains until another track is deleted or cut.

If you want a copy of a track you must cut it - then immediately paste it back.

Changes to playlists are immediate - you do not save the changes at the end like a PC application.

Position in playlist

Track name

3 Crazy
Push knob or OK to Paste

You can edit a playlist from the front panel or the remote.

Front Panel

Turn the knob to see all the tracks in the playlist.

Press Eject to cut a track.

Push the knob to insert the cut track.

Press Next when done.

End of playlist

5 - end -
Press eject or DEL to delete

The cut track is pasted before the track shown. The end of the playlist is shown as - end -.

Remote

Press up and down to see the tracks in the playlist.

Press Del to cut a track.

Press OK to insert the cut track.

Press Next when done.

CD menu - Load CD to HDD

The CD Menu is started when a CD is inserted and from the main menu.

This option loads the entire CD to the internal hard disk drive (HDD).

The first step is to select a name from the album database.

candidate album name

1 Puccini - Mada
Choose CD name

Loading starts when you push the main control knob or press OK to select the appropriate CD name.

If the suggested names do not match the CD select the last option - Other.

last option

2 Other
Choose CD name

You will then be presented with a temporary name for the CD - something like album123.

Its a good idea to edit this name to something more rel-

evant so you can find or recognize the album later.

See the Track Rename function for details on name editing

album 123_
Enter text using remote

A CD loaded with the Other option is given track names track1, track2 and so on.

Once loading has started the progress is displayed.

You can listen to music while the CD loads although loading will slow down a bit because the system is doing two things at once.

You stop a CD loading by ejecting the CD or by pressing and holding the Play/Stop key.

CD menu - Play CD

Plays the CD from track 1.

If the CD has just been inserted you may be asked to pick a name from the album database - so you can see the track names as it plays.

You can play the CD from the remote by pressing CD then Play.

CD menu - Rip CD to USB

Copies the entire CD to the USB device.

Strictly speaking the CD is compressed to MP3 as it is transferred to the USB device.

If the CD has just been inserted you will be asked to pick a name from the album database - see load CD to HDD.

The music is sent to the target directory on the USB device.

Note MP3 encoding makes this process slower than loading to HDD and will slow down further if you play music at the same time.

CD menu - Track to HDD

Loads one track from the CD to the internal hard disk.

This is identical to loading the entire CD but with an additional track selection step.

Pick track to load

3 Jailhouse Rock
Pick a track

CD menu - Track to USB

Loads one track from the CD to the USB device.

This is identical to loading the entire CD but with the above track selection step.

You can also rip a track from the CD by pressing the rip button on the remote when it is playing the CD.

Note it is mechanically inefficient to rip and play the CD at the same time so playback will stop.

CD menu - Goto Track

Plays a specific track on the CD.

If the CD has just been inserted you will be asked to pick a name from the album database - see load CD to HDD.

Track selection is shown above.

CD menu - Update CDDB

Installs a new album database from CD-ROM. Slow process - 20 minutes.

The Album database is derived from a database known as CDDB that contains details on more than 2 million CDs. The file on the CD-ROM, actually called SQDB, is over 500 Mbytes and is decompressed as it is loaded.

Progress is displayed - with snippets from the database.

If you interrupt the update you will be left without a valid album database and will have to start again.

USB menu - Play USB

Plays music from the attached USB device.

You can do this from the remote by pressing USB then Play.

USB menu - Track to USB

Copies the currently playing track to the USB device

You can do this from the remote by pressing the rip button.

USB menu - Backup Music

Makes a backup copy of your music to a USB device.

The internal hard disk is a mechanical device like the engine on a car and is subject to wear and breakdown. It makes sense to make a backup of the music to save having to reload the CDs in the event of a breakdown.

To backup the music you will need a USB hard drive formatted with FAT32 and with sufficient capacity. You can find how much space is used by the music on the internal using Disk Stats in the Main menu.

Backup is time consuming but is incremental and is done in the background. That means you can listen to music while doing a backup. It also means you can interrupt a backup - press and hold the play/stop key - and restart it later.

Incidentally if you buy a second JB7 for another room in your home then you can use the backup to load the second JB7 rather than reload all your CDs onto the second system.

While the system is doing a backup (and not otherwise engaged) it displays the number of tracks backed-up and the percentage through the current track.

USB menu - Restore Music

This recovers music from a backup USB hard drive.

Just like the backup - restore is time consuming, incremental and done in the background.

You may notice that when you attach a backup disk to the USB port that JB7 will allow you to search and play music from the backup disk.

USB menu - USB Directory

This option determines the target directory for tracks transferred to the USB device.

Some mobile telephones will only play MP3 files in a specific directory. This function allows you to pick a suitable directory or enter a user defined directory.

For many simple MP3 players the root directory is OK.

Target directory for transfers to USB

2 Root
USB Destination directory

The options are

1. **Automatic** - JB7 decides on the directory
2. **Root** - the top level directory of the USB device
3. **MP3**
4. **mobile/audio** - audio subdirectory of mobile directory
5. **music**
6. **other**

Choose the other option if you need to define a different directory. You will then be allowed to edit the user defined target directory.

Separate directories with a slash (1 key on remote)

dir/subdir_
Enter text using remote

Text editing is described in Track rename but you will need the remote to enter a slash between directories for a nested target directory.

You cannot enter slash from the front panel.

USB menu - Playlist to USB

This option transfers all the tracks on the selected playlist to the USB device.

See the description of the Track to USB function about the target directory.

USB menu - Export Names

This function creates a file on the USB device called "jb7 catalogue". The file contains the names of all the albums and tracks stored on the JB7.

You can print this file or edit it on a PC (using a text editor like Notepad) as a convenient way to rename lots of tracks and album names.

Each album has the following entries in the file:

album name - you can edit this

album identifier - do not edit

number of tracks - do not edit

track names - you can edit these

Do not change the number of lines in the file and avoid punctuation marks in the names.

USB menu - Import Names

This is the complementary function to the export names function. If you have changed any track or album names in the file "jb7 catalogue" on the USB device then the corresponding tracks and albums will be renamed by this function.

Settings menu - Play mode

You can set the random and intro modes using the random and intro keys on the remote.

This menu option lets you scroll through all the combinations from the front panel.

Combined mode

Random Intro
turn knob and push to choose

Intro mode starts the next track after 12 seconds. Random mode plays tracks in a random order. Random intro is a fun way to skim your music. Classical mode turns off seque and stops playing at the end of each album.

Settings menu - Bass

This lets you adjust the amount of Bass.

Bass +1.5 dB
Turn knob to adjust

For the technically minded the Bass control uses a shelving filter with a corner frequency of 330Hz and -9.0dB to +9.0dB gain in 1.5dB steps.

Settings menu - Treble

Similar to Bass control but with a corner frequency of 3300Hz.

Settings menu - Set time

Adjust the hours, minutes then seconds by rotating the main control knob or using up and down keys.

24 hour clock

14:26:37
Adjust hours

Push the knob or press OK to advance. Press back to go back.

The Set time function uses a 24 hour clock even though the clock is displayed with am/pm.

JB7 has a battery backed clock so it will continue to run through power cuts.

Settings menu - Set Alarm

Adjust the alarm time hours and minutes and turn on/off by rotating the main control knob or using up and down keys.

24 hour clock

7:00 Off
Adjust minutes

Push the knob or press OK to advance. Press back to go back.

The alarm time is displayed alongside the main clock when

the alarm is enabled.

The alarm plays music at the last volume setting - so make sure its not too loud.

Settings menu - Compression

Adjust the level of MP3 compression or disable MP3 compression.

Compression level for subsequent MP3 encoding

Normal
192k bits/sec

The choices are.

Most Compressed - 128k bits/sec

Normal - 192k bits/sec

High Quality - 320k bits/sec

No Compression - music not compressed

Music is compressed after it has been loaded from CD and when the unit is in standby. The compression level is therefore intended as a global setting as opposed to a track by track adjustment.

Having said that - a CD loaded while compression is disabled will remain uncompressed - even when compression is re-enabled.

Settings menu - Brightness

Adjusts the display brightness. There is normal/bright setting and a dim setting for bedrooms.

Settings menu - New CDDB

Same as Update CDDB in the CD menu.

Settings menu - Update S/W

Upgrades the product operating system from data CD.

WARNING this operation overwrites the operating system and can render the system inoperable - only use with a data CD supplied by 3GA and do not interrupt the process.

Follow the instructions on the display.

Recording menu - Start Recording

The Aux. input is selected when you start the Recording Menu - so you can monitor the auxiliary input on the speakers.

This option starts recording from the Aux input to a file with a name like Aux1, Aux2 etc in an album called "Recordings".

You can also start a recording with the remote control by pressing Aux then Rec.

Recording continues up to a maximum time or stopped by the Stop Recording option of this menu or by pressing the Rec button on the remote control.

Recording menu - Stop Recording

Stops recording - you can also press Rec on the remote while recording - or press and hold the Play/Stop key.

Recording - Recording Level

For the best results the Recording level should be as high as possible without distortion or clipping on the loudest passages of music.